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DPD 6244-59
25 September 1959

MEMORANDUM FOR: Development Branch, DPD-DD/P

SUBJECT: Reduction of Tracker Camera Interference with System IV

REFERENCES: A. System IV Report for August from Detachment "B"
B. Monthly ELINT Report for August from Detachment "B"

1. References A and B review previous noise interference generated by the tracker camera and discuss the results of flight tests made to isolate and verify the magnitude and extent of the interference. In brief, the medium operandi of the tests was to use the same model of the System IV (serial 103) in the same article (344) on two flights, one with and one without the tracker. A modified tracker (serial SN-13) incorporating noise filters was used.

2. The results of the tests indicate the elimination of noise lock-ons in Bands 1A and 1B of the System IV when the tracker is not used and almost continuous noise lock-ons, comprising 40% of the low frequency capability, when the tracker is installed. Thus, the low frequency application of the System IV is very marginal when the tracker is used.

3. In view of the above, it is requested that arrangements be made with the tracker camera contractor to determine the most feasible means of eliminating the noise interference.

SIGNED

Chief, Communications Section
DPD-DD/P

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